

Revision Date:15-Jan-2020

Section 1-Identification of Substance/	Identification of Company
Product name	Human Isovaleryl-CoA dehydrogenase / IVD (aa 30-423,
	His Tag) recombinant protein
Product Cat. No.	502899
Chemical Formula:	Not available
Supplier:	NovoPro Bioscience Inc.
	Phone: +86-21-61941042
	Fax: 86-216-194-1042
Section 2-Composition / Information of	on Ingredients
Substance/Preparation:	Substance
Ingredient Name	Human Isovaleryl-CoA dehydrogenase / IVD (aa 30-423,
-	His Tag) recombinant protein
SARA 313	No
Section 3- Hazards Identification	
Classification	This substance/mixture is not considered hazardous by the
	2012 OSHA Hazard Communication Standard (29 CFR
	1910.1200)
GHS Label elements, including precautio	
Signal Word	Not classified
Hazard statement(s)	None.
Precautionary Statement(s)	None.
Supplementary Hazard Information	May produce an allergic reaction
Hazards not otherwise classified	Not applicable.
(HNOC)	
For additional information on toxicity places refer to Castion 11	
For additional information on toxicity, plea	ase reier to Section 11.

Section 4- First Aid Measures	
Oral Exposure	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Eye Exposure	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5- Fire Fighting Measures	
Flash Point	Not available
Autoignition Temp	Not available
Flammability	Not available
Extinguishing Media	
Suitable	Carbon dioxide, dry chemical powder, or appropriate foam.
	Water spray
Fire Fighting	



VOC Content

Protective Equipment	Wear self-contained breathing apparatus and protective
	clothing to prevent contact with skin and eyes.
Specific Hazard(s)	Emits toxic fumes under fire conditions.
Section 6- Accidental Release Measur	es
Procedure to be Followed in Case of	Evacuate area
Leak or Spill	
Procedure(s) of Personal Precaution(s)	Wear respirator, chemical safety goggles, rubber boots,
	and heavy rubber gloves
Methods for Cleaning up	Sweep up, place in a bag and hold for waste disposal.
	Avoid raising dust. Ventilate area and wash spill site after
	material pickup is complete.
Contion 7 Handling and Charges	
Section 7-Handling and Storage	
Handling	Avoid inholation Avoid contact with avon alin and
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and
Storago	clothing. Avoid prolonged or repeated exposure.
Storage Suitable	Keep tightly closed
Storage at -20°C	Keep uguuy closed
Storage at -20°C	
Section 8-Exposure Controls/Personal	Protection Equipment
	Mechanical exhaust required
Engineering Controls Personal Protective equipment	Mechanical exhaust required
Respiratory	Use respirators and components tested and approved
Respiratory	under appropriate government standards such as NIOSH
	(US) or CEN (EU). Respiratory protection is not required.
	Where protection from nuisance levels of dusts are desired,
	use type N95 (US) or type P1 (EN 143) respirator.
Other	Wear appropriate government approved respirator,
	chemical-resistant gloves, safety goggles, other protective
	clothing.
General Hygiene Measures	Wash thoroughly after handling
Section 9- Physical and Chemical Prop	perties
Appearance	
Physical State	Powder
Property	
Molecular Weight	Not available
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density Bulk Density	Not available Not available
Bulk Density Odor Threshold	Not available Not available
Volatile%	Not available
VOIDUIE /0	

Not available



Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available
Section 10- Stability and Reactivity	
Stability	
Stable	Stable
Hazardous Decomposition Products	
Hazardous Decomposition Products	Nature of decomposition products not known.
Hazardous Polymerization	
Hazardous Polymerization	Will not occur
Section 11- Toxicological Information	
Route of Exposure	
Skin Contact	Avoid contact with skin.
Eye contact	Avoid contact with eyes. May cause slight irritation.
Inhalation	Avoid breathing vapors or mists. May cause irritation

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known.

Section 12- Ecological Information
No data available.

Section 13- Disposal Considerations	
Appropriate Method of Disposal of Substance or Preparation	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
Section 14- Transport Information	
DOT	



Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
Non-Hazardous for Air Transport	Non-hazardous for air transport
Section 15- Regulatory Information	
US Classification and Label Text	
US Statements	Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
United States Regulatory information	
SARA Listed	No
Canada Regulatory information	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL	No
NDSL	No

## Section 16- Other Information

NovoPro corporation MSDS is believed to be correct but only used as a guide for experienced personnel, NovoPro shall not be held liable for any damage resulting from the handling or from contact with the above product.