

## MATERIAL SAFETY DATA SHEET

Product: **Human Ghrelin (Active) ELISA Kit** Catalog #: **EZGRA-88K**

### Composition/Information of Ingredients

<u>Component</u>	<u>Catalog #</u>	<u>Ingredients</u>	<u>See Below</u>
Wash Buffer 10X Concentrate	EWB-HRP	Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
Assay Buffer	EABGR	Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
		Phenylmethanesulfonyl fluoride (PMSF)	6
Human Ghrelin Total Standard	E8088-K	Human Ghrelin	1
		Assay Buffer (as above)	4
Quality Controls 1 & 2	E6088-K	Human Ghrelin	1
		Assay Buffer (as above)	4
Matrix	EMTX-GA	Animal Serum	5
		Assay Buffer (as above)	3
		Sodium Azide (NaN <sub>3</sub> )	2
Capture Antibody	E1088-C	Assay Buffer (as above)	3
		Antibody	1
Detection Antibody	E1088-D	Assay Buffer (as above)	3
		Biotinylated Antibody	1
		Rabbit Gamma Globulin	1
Enzyme Solution	EHRP	Streptavidin – Horseradish Peroxidase Conjugate (SA-HRP)	4
Substrate	ESS-TMB3	TMB (3, 3', 5' Tetramethylbenzidine)	1
Stop Solution	ET-TMB	0.3M HCL	3
Microtiter Plate	EPRAM	Coated with antibody	1

### Hazardous Ingredients:

1. Millipore is not aware of any hazards for this product. Avoid contact with eyes and skin.
2. ProClin-300, 0.05% and Sodium Azide, 0.08%, or item containing sodium azide: CAS # 26628-22-8. See fire hazard and explosion information below.
3. Refer to ingredients and hazard information for Assay Buffer (above).
4. Streptavidin – Horseradish Peroxidase Conjugate (SA-HRP): CAS #54-64-8. Wear gloves while using this component. Follow emergency first aid procedures.
5. Animal Serum: Potential Biohazard due to blood-borne pathogens. All precautions designated by your local Bloodborne Pathogen Exposure Control Plan should be followed.
6. PMSF (Phenylmethanesulfonyl Fluoride): Product may be harmful by all routes of entry. This product may be irritating to the eyes, skin and upper respiratory tract. Avoid inhalation of this product. Avoid contact with eyes and skin.

**Fire Hazard and Explosion Information:**

The above listed component contains Sodium Azide. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. If discarded into the sink, flush with a large volume of water to prevent azide build-up.

**Health Hazard Data:**

Appropriate handling of toxic chemicals in laboratories is essential. Periodic review of the safeguards must be ensured. Appropriate emergency procedures and equipment should be in place and their use should be reviewed. Laboratory technicians should be aware of the potential toxicity and rapidity of action, and signs and symptoms of poisoning with this compound.

**Emergency and First Aid Procedures:**

Ingestion: Obtain immediate medical attention.  
Eyes: Immediately flush eyes with water.  
Skin: Wash skin with soap and plenty of water.

**Spill Procedures:**

Spills should be cleaned up by using absorbents and thrown away in the proper receptacles.

**Storage**

Storage: Upon receipt, all components of the kit should be stored at 2-8°C. For longer storage, freeze diluted HRP Wash Buffer, Matrix Solution, reconstituted standard and controls at  $\leq -20^{\circ}\text{C}$ . Avoid multiple freeze/thaw cycles of the Standards and Matrix Solution. Refer to expiration dates on all reagents prior to use. Do not mix reagents from different kits unless they have the same lot numbers.

**Disposal:**

Observe all federal, state, and local environmental regulations.

**Protective Equipment:**

Ventilation: Provide local exhaust or process enclosure ventilation to meet the published exposure limits.  
Clothing and Gloves: Wear appropriate protective clothing and equipment to prevent repeated or prolonged contact with this substance. Protective clothing should meet the requirements for personal protective equipment. This clothing should include a lab coat and protective gloves.  
Eye protection should always be used when working with chemicals.

**Disclaimer:**

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