

## MATERIAL SAFETY DATA SHEET

Product: **Human HMW Adiponectin ELISA Kit** Catalog #: **EZHMWA-64K**

### Composition/Information of Ingredients

<u>Component</u>	<u>Catalog #</u>	<u>Ingredients</u>	<u>See Below</u>
10X Concentrate Wash Buffer	EWB-HRP	Miscellaneous Buffers/Salts	1
		ProClin-300	2
Assay Buffer	AB-10XP	Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
Assay Running Buffer	EARB-4	Assay Buffer AB-10XP (as above)	3
		Sodium Azide (NaN <sub>3</sub> )	2
Sample Digestion Solution	ESDS	Miscellaneous Buffers/Salts	1
Sample Digestion Buffer	EDGB	Miscellaneous Buffers/Salts	1
Sample Dilution Buffer	ESDB	Assay Buffer AB-10XP (as above)	3
		Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
Human HMW Adiponectin ELISA Standard	E8064-K	Serum	6
		Assay Buffer AB-10XP (as above)	3
		Sodium Azide (NaN <sub>3</sub> )	2
Quality Controls 1 & 2	E6364-K	Serum	6
		Assay Buffer AB-10XP (as above)	3
		Sodium Azide (NaN <sub>3</sub> )	2
Detection Antibody	E1064	Adiponectin Antibody	1
		Assay Buffer AB-10XP (as above)	3
Enzyme Solution	EHRP	Streptavidin – Horseradish Peroxidase Conjugate (SA-HRP)	4
Substrate	ESS-TMB	TMB (3,3',5' Tetramethylbenzidine)	1
Stop Solution	ET-TMB	0.3M HCL	5
Sample Preparation Plates	E-PLATE	No coating	1
Microtiter Strip Plate	EP64	Coated with antibody	1

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**Hazardous Ingredients:**

1. Linco Research is not aware of any hazards for this product.
2. ProClin-300, 0.05% and Sodium Azide, 0.08%: CAS # 26628-22-8. See fire hazard and explosion information below.
3. Refer to ingredients and hazard information for Assay Buffer AB-10XP (above).
4. Streptavidin – Horseradish Peroxidase Conjugate (SA-HRP): Wear gloves while using this component. Follow emergency first aid procedures.
5. Hydrochloric Acid: This product is generally considered safe; however, all laboratory safety procedures must be followed and gloves and safety glasses must be worn when preparing this material.
6. Serum: Potential Biohazard due to blood-borne pathogens. All precautions designated by your local Bloodborne Pathogen Exposure Control Plan should be followed.

**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 and Disposal:**

Prior to use, all components in the kit can be stored up to 2 weeks at 2-8°C except for the Sample Digestion Solution (cat # ESDS), Sample Dilution Buffer (cat # ESDB), and Sample Digestion Buffer (cat # EDGB) which must be stored at  $\leq -20^{\circ}\text{C}$ . For longer storage (> 2 weeks), freeze diluted Wash Buffer, Assay Buffer, and reconstituted Standards and Controls at  $\leq -20^{\circ}\text{C}$ . Minimize repeated freeze and thaw of the HMW Adiponectin Standards and Quality Controls.

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 worn when working with chemicals.

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