PRODUCT INFORMATION



Hormone-Sensitive Lipase (human, recombinant)

Item No. 10664

Overview and Properties

Synonyms: HSL, LIPE

Source: Active recombinant N-terminal hexahistidine-tagged protein, expressed in Sf21 insect

cells using a baculovirus expression system.

Uniprot No.: Q01469

Amino Acids: 2-1,076 (full-length)

Molecular Weight: 118.3 kDa

-80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein Storage:

Stability: ≥6 months Supplied in: batch specific

Protein

Concentration: batch specific mg/ml Activity: batch specific U/ml Specific Activity: batch specific U/mg

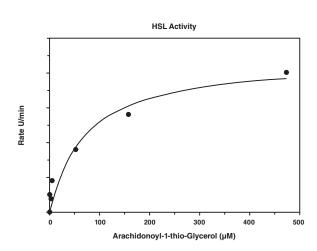
Unit Definition: One unit is defined as the amount of enzyme required to produce 1 nmol of thioglycerol

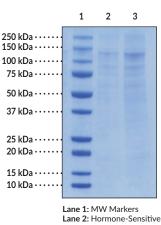
from arachidonoyl-1-thio-glycerol per minute at 37°C in 10 mM Tris-HCl, pH 8.0,

containing 1 mM EDTA

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images





Lane 2: Hormone-Sensitive Lipase (2 µg) Lane 3: Hormone-Sensitive Lipase (4 µg)

SDS-PAGE Analysis of Hormone-Sensitive

Representative gel image shown; actual purity may vary between each batch.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/18/2023

CAYMAN CHEMICAL 1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897 [734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM

PRODUCT INFORMATION



Description

Hormone-sensitive lipase (HSL) is a key enzyme regulating the mobilization of fatty acids from intracellular stores. There are three different isoforms of the enzyme: HSL_{adi} , which is the predominant form found in adipocytes, HSL_{tes} expressed in testes, and HSL_{b} found in insulin secreting β -cells. The three isoforms are distinguished by their molecular masses. HSL catalyses the rate limiting step in the lipolysis of triacylglycerol, found in intracellular stores, to fatty acids. HSL also catalyzes the hydrolysis of mono- and diacylglycerides, as well as cholesterol esters. HSL also catalyzes the hydrolysis of mono- and diacylglycerides,

References

- 1. Holm, C., Belfrage, P., Østerlund, T., et al. Protein Eng. 7(4), 537-541 (1994).
- 2. Krintel, C., Klint, C., Lindvall, H., et al. PLoS One 5(6), (2010).
- 3. Zimmermann, R., Lass, A., Haemmerle, G., et al. Biochim. Biophys. Acta 1791, 494-500 (2009).
- 4. Saltiel, A.R. Proc. Natl. Acad. Sci. USA 97(2), 535-537 (2000).

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897