

H2-D1 Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71518
Synonyms:	H2-D1; H-2 class I histocompatibility antigen; D-D alpha chain; H-2D(D)
Species:	Mouse
Source:	E. coli
Accession:	P01900 (25G-311T)
Gene ID:	14964
Molecular Weight:	Approximately 49.2 kDa

PROPERTIES

AA Sequence	<pre> G S H S L R Y F V T A V S R P G F G E P R Y M E V G Y V D N T E F V R F D S D A E N P R Y E P R A R W I E Q E G P E Y W E R E T R R A K G N E Q S F R V D L R T A L R Y Y N Q S A G G S H T L Q W M A G C D V E S D G R L L R G Y W Q F A Y D G C D Y I A L N E D L K T W T A A D M A A Q I T R R K W E Q A G A A E R D R A Y L E G E C V E W L R R Y L K N G N A T L L R T D P P K A H V T H H R R P E G D V T L R C W A L G F Y P A D I T L T W Q L N G E E L T Q E M E L V E T R P A G D G T F Q K W A S V V V P L G K E Q K Y T C H V E H E G L P E P L T L R W G K E E P P S S T K T N T </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The H2-D1 Protein plays a crucial role in the immune system by participating in the presentation of foreign antigens. As a key component of the major histocompatibility complex class I (MHC-I), H2-D1 forms a heterodimer with an alpha chain and a beta chain (beta-2-microglobulin). This complex is essential for the recognition and presentation of antigens to cytotoxic T cells, contributing to the surveillance and defense mechanisms of the immune system. Through its involvement in antigen presentation, H2-D1 plays a vital role in the orchestration of immune responses, facilitating the identification and</p>
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elimination of foreign entities by the adaptive immune system.

Caution: Product has not been fully validated for medical applications. For research use only.

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