

SIRP Beta 1 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78520
Synonyms:	SIRP-beta-1 isoform 3; SIRPB1; CD172b; DKFZp686A05192; FLJ26614; 9930027N05Rik; SIRP-beta; Sirpb; Sirpb1; Sirpb1a; SIRP- β -1 isoform 3; SIRP- β
Species:	Human
Source:	HEK293
Accession:	O00241 (E30-A369)
Gene ID:	10326
Molecular Weight:	52-60 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	SIRP beta 1 protein, an immunoglobulin-like cell surface receptor, plays a vital role in the negative regulation of receptor tyrosine kinase-coupled signaling processes. Additionally, it participates in the recruitment of the tyrosine kinase SYK, triggering the activation of myeloid cells when associated with TYROBP. Existing as a homodimer with disulfide linkages, SIRP beta 1 interacts specifically with TYROBP, leading to the recruitment of SYK. This intricate molecular interplay positions SIRP beta 1 at the nexus of cellular signaling regulation, highlighting its significance in modulating myeloid cell activation and the intricate network of protein interactions that contribute to its functional role.
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Caution: Product has not been fully validated for medical applications. For research use only.

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