

## SDPR Protein, Mouse (His)

Cat. No.:	HY-P76637
Synonyms:	Caveolae-associated protein 2; Cavin-2; Phosphatidylserine-binding protein; SDR
Species:	Mouse
Source:	E. coli
Accession:	Q63918 (G2-A180)
Gene ID:	20324
Molecular Weight:	Approximately 28 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4, 30% Glycerol.. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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 SDPR protein is intricately involved in caveolar biogenesis and morphology, serving as a key regulator of caveolae structure by inducing membrane curvature within these specialized membrane invaginations. Its role in caveola formation exhibits tissue-specific characteristics, being essential for caveolae development in the lung and fat endothelia but not in the heart endothelia. In lung endothelial cells, SDPR acts as a negative regulator of the size or stability of CAVIN complexes. Additionally, it may play a role in targeting PRKCA to caveolae and forms a crucial component of the CAVIN complex alongside CAVIN1, CAVIN2, CAVIN3, and CAVIN4. SDPR's interactions with PRKCA, CAVIN4, CAVIN1, and CAV3 underscore its multifaceted involvement in caveolar dynamics, shedding light on its significance in the regulation of cellular membrane structures and associated signaling pathways.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA