

TSPO Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702478
Synonyms:	Translocator protein; Mitochondrial benzodiazepine receptor; PKBS; Peripheral-type benzodiazepine receptor; PBR
Species:	Mouse
Source:	E. coli Cell-free
Accession:	P50637 (M1-E169)
Gene ID:	12257
Molecular Weight:	21.7 kDa

PROPERTIES

AA Sequence	<p> M P E S W V P A V G L T L V P S L G G F M G A Y F V R G E G L R W Y A S L Q K P S W H P P R W T L A P I W G T L Y S A M G Y G S Y I V W K E L G G F T E D A M V P L G L Y T G Q L A L N W A W P P I F F G A R Q M G W A L A D L L L V S G V A T A T T L A W H R V S P P A A R L L Y P Y L A W L A F A T V L N Y Y V W R D N S G R R G G S R L P E </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 20 mM Tris-HCl, 0.15 M NaCl, 0.05% Brij-78, 6% Trehalose, pH 8.0.
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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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>TSPO (Translocator Protein) exhibits the ability to bind protoporphyrin IX, suggesting a potential role in the transport of porphyrins and heme. Initially identified as a peripheral-type benzodiazepine receptor, TSPO can also bind isoquinoline carboxamides. Moreover, it plays a role in promoting cholesterol transport across mitochondrial membranes, implicating its involvement in lipid metabolism. Although its precise physiological function is controversial and some reports suggest that it may not be essential for steroid hormone biosynthesis, TSPO interacts with various proteins such as TSPOAP1, MOST-1, and potentially STAR, indicating its participation in diverse cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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