

MMP-10 Protein, Human (P. pastoris, His)

Cat. No.:	HY-P700571
Synonyms:	EC 3.4.24; EC 3.4.24.22; matrix metallopeptidase 10 (stromelysin 2); matrix metalloprotease 10; matrix metalloproteinase 10 (stromelysin 2); Matrix metalloproteinase-10; MMP10; MMP-10; SL-2; STMY2stromelysin-2; Stromelysin 2; transin 2; transin-2
Species:	Human
Source:	P. pastoris
Accession:	P09238 (F99-C476)
Gene ID:	4319
Molecular Weight:	45 kDa

PROPERTIES

AA Sequence	<pre> F S S F P G M P K W R K T H L T Y R I V N Y T P D L P R D A V D S A I E K A L K V W E E V T P L T F S R L Y E G E A D I M I S F A V K E H G D F Y S F D G P G H S L A H A Y P P G P G L Y G D I H F D D D E K W T E D A S G T N L F L V A A H E L G H S L G L F H S A N T E A L M Y P L Y N S F T E L A Q F R L S Q D D V N G I Q S L Y G P P P A S T E E P L V P T K S V P S G S E M P A K C D P A L S F D A I S T L R G E Y L F F K D R Y F W R R S H W N P E P E F H L I S A F W P S L P S Y L D A A Y E V N S R D T V F I F K G N E F W A I R G N E V Q A G Y P R G I H T L G F P P T I R K I D A A V S D K E K K K T Y F F A A D K Y W R F D E N S Q S M E Q G F P R L I A D D F P G V E P K V D A V L Q A F G F F Y F F S G S S Q F E F D P N A R M V T H I L K S N S W L H C </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 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.
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

TSPO, initially characterized as the peripheral-type benzodiazepine receptor, exhibits the ability to bind protoporphyrin IX, suggesting a potential role in porphyrin and heme transport. Beyond benzodiazepines, TSPO can also bind isoquinoline carboxamides. Its involvement in cholesterol transport across mitochondrial membranes and potential contributions to lipid metabolism have been documented, although its precise physiological role remains a subject of debate. While some reports suggest it is dispensable for steroid hormone biosynthesis, indicating controversy in its functional implications, TSPO interacts with proteins such as TSPOAP1, MOST-1, and may also engage with STAR, highlighting its versatile molecular interactions.

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

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