

## ANGPT1/Angiopoietin-1, Rat (*P. pastoris*, His)

Cat. No.:	HY-P700560
Synonyms:	angiopoietin 1; angiopoietin-1; Ang1; KIAA0003; ANG-1; AGP1; AGPT; ANG1;
Species:	Rat
Source:	<i>P. pastoris</i>
Accession:	O35460 (S20-F497)
Gene ID:	89807
Molecular Weight:	57.4 kDa

### PROPERTIES

#### AA Sequence

SNQRRSPENG	GRRYNRIQHG	QCAYTFILPE	HDGNCRESAT
EQYNTNALQR	DAPHVETDFS	SQKLQHLEHV	MENYQTWLQK
LENYIVENMK	SEMAQIQQNA	VQNHTATMLE	IGTSLLSQTA
EQTRKLT DVE	TQVLNQTSRL	EIQLLENSLS	TYELEKQLLQ
QTNEILKIQE	KNSLLEHKIL	EMEGKHKEEL	DTLKEEKENL
QGLVTRQTFI	IQELEKQLSR	ATSNNSVLQK	QQLELMDTVH
NLVSLCTKEV	LLKGGKREEE	KPFRDCADVY	QAGFNKSGIY
TIYFNNMPEP	KKVFCNMDVN	EGGWTVIQHR	EDGSLDFQRG
WKEYKMGFGN	PSGEYWL GNE	FIFAITSQRQ	YMLRIELMDW
EGNRAYSQYD	RFHIGNQKQN	YRLYLKGHTG	TAGKQSSLIL
HGADFSTKDA	DNDNCMCKCA	LMLTGGWWFD	ACGPSNLNGM
FYTAGQNHGK	LNGIKWHYFK	GPSYSLRSTT	MMIRPLDF

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 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<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

ANGPT1, also known as Angiopoietin-1 in rats, functions by binding to and activating the TIE2 receptor, inducing its tyrosine

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phosphorylation. This protein is implicated in endothelial developmental processes, distinct from the action of VEGF, and appears to play a crucial role in mediating reciprocal interactions between the endothelium and the surrounding matrix and mesenchyme. Additionally, ANGPT1 is involved in mediating blood vessel maturation and stability, suggesting its significance in vascular development. Notably, it may play an important role in the early development of the heart.

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

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