

## SLURP2 Protein, Human (P.pastoris, His)

<b>Cat. No.:</b>	HY-P71847
<b>Synonyms:</b>	SLURP2; Secreted Ly-6/uPAR domain-containing protein 2; Secreted LY6/PLAUR domain-containing protein 2; Secreted Ly-6/uPAR-related protein 2; SLURP-2
<b>Species:</b>	Human
<b>Source:</b>	P. pastoris
<b>Accession:</b>	P0DP57 (231-97D)
<b>Gene ID:</b>	432355
<b>Molecular Weight:</b>	Approximately 10.0 kDa

### PROPERTIES

<b>AA Sequence</b>	I W C H Q C T G F G      G C S H G S R C L R      D S T H C V T T A T      R V L S N T E D L P L V T K M C H I G C      P D I P S L G L G P      Y V S I A C C Q T S      L C N H D
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The SLURP2 protein plays a regulatory role by binding to and potentially modulating the functional properties of both nicotinic and muscarinic acetylcholine receptors. Its involvement extends to the regulation of keratinocyte proliferation, differentiation, and apoptosis. In vitro studies reveal that SLURP2 moderately inhibits acetylcholine-evoked currents of alpha-3:beta-2-containing nAChRs, strongly inhibits those of alpha-4:beta-2-containing nAChRs, modulates alpha-7-containing nAChRs, and inhibits nicotine-induced signaling, likely implicating alpha-3:beta-4-containing nAChRs. The protein is proposed to act on alpha-3:beta-2 and alpha-7 nAChRs in an orthosteric manner and on mAChRs, such as CHRM1 and CHRM3, in an allosteric manner. Interactions with specific subunits (CHRNA3, CHRNA4, CHRNA5, CHRNA7, CHRNB2, and CHRNB4) and with CHRM1 and CHRM3, likely in an allosteric manner, have been observed.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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