

Odorant-binding protein/OBP Protein, Bovine (P.pastoris)

Cat. No.:	HY-P71810
Synonyms:	Odorant-binding protein; OBP; Olfactory mucosa pyrazine-binding protein
Species:	Bovine
Source:	P. pastoris
Accession:	P07435 (1A-159E)
Gene ID:	/
Molecular Weight:	Approximately 34.5 kDa

PROPERTIES

AA Sequence	<p>A Q E E E A E Q N L S E L S G P W R T V Y I G S T N P E K I Q E N G P F R T Y F</p> <p>R E L V F D D E K G T V D F Y F S V K R D G K W K N V H V K A T K Q D D G T Y V</p> <p>A D Y E G Q N V F K I V S L S R T H L V A H N I N V D K H G Q T T E L T E L F V</p> <p>K L N V E D E D L E K F W K L T E D K G I D K K N V V N F L E N E D H P H P E</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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	<p>The Odorant-binding protein (OBP) is characterized by its ability to bind a diverse range of chemical odorants. Structurally, it forms homodimers, underscoring its functional organization. As an essential component in olfactory processes, OBP plays a pivotal role in recognizing and capturing various odor molecules, contributing to the intricate mechanisms underlying the perception of scents. This homodimeric configuration likely enhances its efficiency in binding and transporting a wide spectrum of odorants, highlighting the significance of OBP in facilitating olfactory signaling and sensory perception.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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