

Hydrophobin-1/HFB1 Protein, Hypocrea jecorina (His-SUMO)

Cat. No.:	HY-P71472
Synonyms:	hfb1; Hydrophobin-1; Hydrophobin I; HFBI
Species:	Others
Source:	E. coli
Accession:	P52754 (23S-97A)
Gene ID:	18488188
Molecular Weight:	Approximately 23.5 kDa

PROPERTIES

AA Sequence	S N G N G N V C P P G L F S N P Q C C A T Q V L G L I G L D C K V P S Q N V Y D G T D F R N V C A K T G A Q P L C C V A P V A G Q A L L C Q T A V G A
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	Hydrophobin-1 (HFB1) is a protein that plays a crucial role in contributing to surface hydrophobicity, a characteristic vital for various biological processes. Its significance lies in facilitating the association of hyphae in reproductive structures, aiding in the dispersal of aerial spores, and promoting the adhesion of pathogens to host structures. As a homodimer, HFB1 likely forms a dimeric structure, which may enhance its effectiveness in providing hydrophobic properties to surfaces. The ability of HFB1 to influence surface hydrophobicity underscores its importance in the ecology and biology of fungi, impacting processes such as fungal growth, reproduction, and interactions with host organisms or surfaces.
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Caution: Product has not been fully validated for medical applications. For research use only.

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