

## Product Data Sheet

Product Name: UBA5 Human  
 Cat. No.: GP22342  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ubiquitin-like modifier-activating enzyme 5; Ubiquitin-activating enzyme 5; ThiFP1; UFM1-activating enzyme; Ubiquitin-activating enzyme E1 domain-containing protein 1; UBA5; UBE1DC1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMAESVE RLQQRVQELE RELAQERSLQ          VPRSGDGGGG RVRIEKMSSE VVDSNPYSRL MALKRMGIVS DYKIRTFVAV          AIVGVGGVGS VTAEMLTRCG IGKLLLFDYD KVELANMNRL FFQPHQAGLS          KVQAAEHTLR NINPDVLFV HNYNITTVENFQHFMDRISN GGLEEGKPVV          LVLSCVDNFE ARMTINTACN ELGQTMESG VSENAVSGHI QLIIPGESAC          FACAPPLVVA ANIDEKTLKR EGVCAASLPT TMGVVAGILV QNVLFLLNF          GTVSFYLGYN AMQDFPTMS MKPNPQCDDR NCRKQQEYK KKVAALPKQE          VIQEEEEIIH EDNEWGIELV SEVSEEELKN FSGPVPDLPE GITVAYTIPK          KQEDSVTELT VEDSGESLED LMAKMKNM.</p>		
Formulation	The UBA5 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.		

### Introduction

Ubiquitin-like modifier activating enzyme 5 (UBA5) is a member of the ubiquitin-activating E1 family and UBA5 subfamily. Ubiquitin and ubiquitin-like proteins are recognized as covalently conjugated to various cellular substrates by a three-step enzymatic pathway. The ubiquitin-activating enzyme (E1) has a vital role in the first step of ubiquitination pathway to activate ubiquitin or ubiquitin-like proteins. UBA5 activates an ubiquitin-like protein, ubiquitin-fold modifier 1 (Ufm1), by forming a high-energy thioester bond. UBA5 is located primarily in cytoplasm, while it generally localizes to the nucleus in presence of SUMO2.

### Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UBA5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 428 amino acids (1-404) and having a molecular mass of 47.4kDa. UBA5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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