

Product Data Sheet

Product Name: USP5 protein, Human (sf9, His)
Cat. No.: GC27238
Batch No.: 1

Product Data

| | | | |
|---------------------|--|--------------------|---|
| Purity | >98% | Source | Sf9 insect cells |
| Physical Appearance | solid | Shipping Condition | Room temperature in continental US; may vary elsewhere. |
| Synonyms | Ubiquitin carboxyl-terminal hydrolase 5; Isopeptidase T; USP5; ISOT | | |
| Formulation | Lyophilized from a 0.22 μm filtered solution of 50 mM Tris, 100 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween 80. | | |

Stability

Stored at -20°C for 2 years from date of receipt. 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.

Background

USP5 protein selectively cleaves branched multiubiquitin polymers, favoring 'Lys-48'-linked polyubiquitin disassembly. It exhibits lower affinity for linear and 'Lys-63'-linked polyubiquitin. USP5 knockdown leads to p53/TP53 accumulation, enhancing p53/TP53 transcriptional activity, as unanchored polyubiquitin competes with ubiquitinated p53/TP53 for proteasomal recognition, unlike MDM2. USP5 Protein, Human (sf9, His) is the recombinant human-derived USP5 protein, expressed by Sf9 insect cells, with C-His labeled tag.

USP5 蛋白选择性地切割分支多泛素化聚合物，偏爱“Lys-48”连接的多泛素化聚合物。USP5 蛋白对线性及“Lys-63”连接的多泛素化聚合物亲和力较低。USP5 敲低导致 p53/TP53 积累，增强 p53/TP53 转录活性，因为未锚定的多泛素化聚合物与泛素化的 p53/TP53 竞争蛋白酶体识别，这与 MDM2 不同。USP5 蛋白，人源（sf9, His）是由 Sf9 昆虫细胞表达的重组人源 USP5 蛋白，带有 C-His 标签。

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA