Tubulin Polymerization-Promoting Protein Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: TPPP, 25 kDa brain-specific protein, TPPP/p25, p24, p25-alpha, TPPP1

Cat. No.:
RD172310100 (0.1 mg)

Description

Total 229 AA. MW: 24.9 kDa (calculated). N-Terminal His-tag (10 extra AA). UniprotKB acc.no. O94811. Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

TPPP protein probably participates in the polymerization of tubulin into microtubules. The level of TPPP/p235 in cerebrospinal fluid is significantly higher in multiple sclerosis patients.

Research topic

Neural tissue markers

Amino Acid Sequence

```
MKHHHHHHAS MADKAKPAKA ANRTPPKSPG DPSKDRAAKR LSLESEGAGE GAAASPELSA LEEAFRRFAV HGDARATGRE
MHGKNWSKLC KDCQVIDGRN VTVTDVDIVF SKIKGKSCRT ITFEQFQEAL EELAKKRFKD KSSEEAVREV HRLIEGKAPI
ISGVTKAISS PTVSRLTDTT KFTGSHKERF DPSGKGKGKA GRVDLVDESG YVSGYKHAGT YDQKVQGGK
```

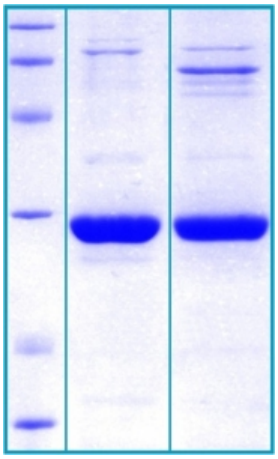
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >85%

SDS-PAGE gel



12% SDS-PAGE separation of Human TPPP:

1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa
2. reduced and boiled sample, 2.5µg / lane
3. non-reduced and non-boiled sample, 2.5µg / lane

Endotoxin

< 1.0 EU/µg

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4

Reconstitution

Add 200ul of deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com