Product Name: FBXO3 / SKP1

Product Code: TE3-138

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant FBXO3 / SKP1 has been functionally validated for *in vitro* SCF E3 ubiquitin ligase reconstitution and ubiquitylation assays following assembly with CUL1-RBX1, supporting biochemical studies of FBXO3-dependent substrate ubiquitylation and inhibitor evaluation.

Physical Characteristics

Species: Human

Predicted MW (kDa):
FBXO3: 51 kDa
SKP1: 19 kDa

Source: *E. coli* BL21

Purity: 95 %

Tags:
FBXO3: N-His_6
SKP1: Untagged

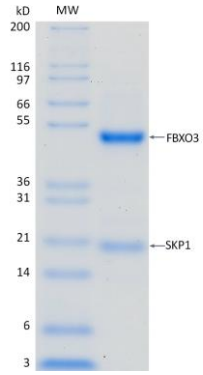
Formulation: 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 2 mM TCEP, 1 mM EDTA, pH 7.6

Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE



2 µg FBXO3 / SKP1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Protein ID: F-box only protein 3
S-phase kinase-associated protein 1

Activity Assay

Verified in Ubiquitylation Assay.

Background

Description

The recombinant human FBXO3/SKP1 complex contains the substrate receptor FBXO3 bound to its adaptor protein SKP1, forming the core module of the SCF (SKP1–CUL1–F-box) E3 ubiquitin ligase complex. It is well suited for *in vitro* ubiquitylation assays, SCF complex reconstitution, ligand discovery, and studies of F-box protein-mediated substrate recognition and targeted protein degradation.

Accession Number: Q9UK99

Entrez Gene ID: FBXO3

Accession Number: P63208

Entrez Gene ID: SKP1

Protein Sequence

FBXO3:

MHHHHHHGSMETETAPLTLESLPTDPLLLILSFLDYRDLINCCYVSRRLSQLSSHDPLWRRHCKKY
WLISEEEKTQKNQCWKSLFIDTYSDVGRYIDHYAAIKKAWDDLKKYLEPRCPRMVLSLKEGAREED
LDAVEAQIGCKLPDDYRCSYRIHNGQKLVVPGLLGSMALSNHYRSEDLLDVDTAAGGFQQRQGLKY
CLPLTFCIHTGLSQYIAVEAAEGRNKNEVFYQCPDQMARNPAAIDMFIIGATFTDWFTSYVKNVVS
GGFPIIRDQIFRYVHDPECVATTGDITVSVSTSFLPELSSVHPPHYFFTYRIRIEMSKDALPEKAC
QLDSRYWRITNAKGDVEEVQGPGVVGEFPIISPGRVYEYTSCTTFSTTSGYMEGYYTFHFLYFKDK
IFNVAIPRFHMACPTFRVSIARLEMGPDEYEEMEEEEEEEEEDEDDDS

SKP1:

MPSIKLQSSDGEIFEVDVEIAKQSVTIKTMLEDLGMDDEGDDDPVPLPNVNAAILKKVIQWCTHHK
DDPPPPEDDENKEKRTDDIPVWDQEFLKVDQGTLFELILAANYLDIKGLLDVTCKTVANMIKGKTP
EEIRKTFNIKNDFTEEEEAQVRKENQWCEEK