

K720 Nedd8 cullin-1 (711-730) FP (*human sequence, synthetic*)

UbiQ code : UbiQ-080
Batch # : B24072012-001
Amount : 25 ug, lyophilized powder
Purity : ≥95% by LC-MS
Mol. Weight : 11.37 kDa
Storage : upon arrival, powder at –20°C, solution at –80°C. Store dark and avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-080 is a fluorescence polarization assay reagent for Nedd8 proteases based on a cullin-1 (711-730) peptide that is modified on the N-terminus with a 5-carboxytetramethylrhodamine (TAMRA) and mononeddylated at K720 via a native isopeptide bond. See reference 4 for full experimental details.

sequence

TAMRA-IQAAIVRIMK(Nedd8)MRKVLKHQQL

Important: sample preparation

- dissolve the powder in DMSO (e.g. 1.14 mg/mL = 100 uM or 11.4 mg/mL = 1000 uM)
- add the DMSO stock to 300 mM NaCl (please note the order of addition) and mix - at this step we have included a high salt aq. solution because Nedd8 is more stable at high salt concentration.
- buffer the aq. solution as desired (using 1M HEPES or 1M Tris for example)

Literature. (1) A. Faesen et al. *Chem Biol* **2011**, 18, 1550. (2) Geurink et al. *ChemBiochem* **2012**, 13, 293. (3) El Oualid et al. *Angew Chem Int Ed* **2010**, 49, 10149.