TNF Receptor-Associated Protein 1 (TRAP1), human recombinant

CATALOG #: 7778-10

SOURCE: *E. coli*

PURITY: ≥95% by SDS-PAGE

MOL. WEIGHT: 76.5 kDa

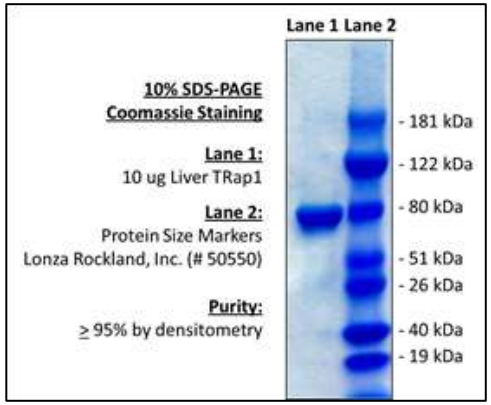
FORMULATION: Liquid in 50 mM potassium phosphate pH-7.4, 50 mM sodium chloride, 0.5 mM DTT, 0.5 mM EDTA, and 2.5% glycerol.

CONCENTRATION: 13.5 mg/ml

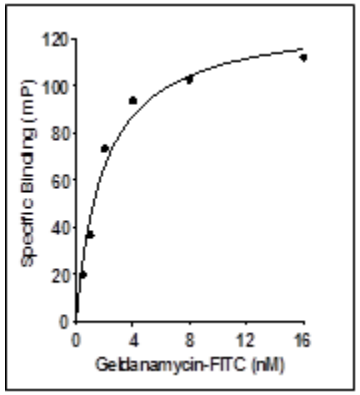
STORAGE CONDITIONS:
The protein is best stored in working aliquots at -80 °C. Avoid freeze/thaw cycles.

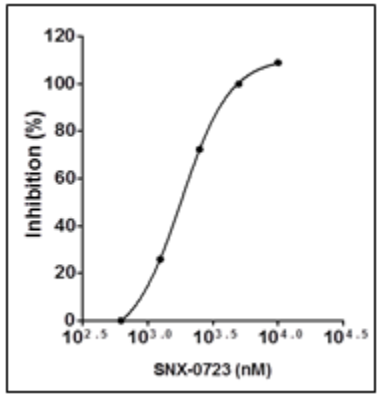
DESCRIPTION:
Human TRAP1 belongs to the mitochondrial heat shock protein family. These molecular chaperones are highly conserved and play an important role in signal transduction, protein folding and degradation. Recombinant human TRAP1 has a C-terminal FLAG tag and has 702 amino acid residues. It has been identified to be protective for cell survival, and has been suggested as a target for anti-cancer therapeutics. Also can be useful for studies including enzyme kinetics, activator screening and selectivity profiling.

SDS-PAGE:



SPECIFIC ACTIVITY:
K_d = 1.95 nM. Assay conditions: 20 mM HEPES, pH 7.5, 50 mM KCl, 5 mM $MgCl_2$, 20 mM sodium molybdate, 2 mM DTT, 0.01% NP40, 100 µg/ml BSA, 50 nM TRAP1, geldanamycin-FITC (titration range 0.016-16 nM) incubated at 4°C for 24 hrs. Fluorescence polarization measured at RT (Ex/Em= 485/520 nm)





BINDING CHARACTERISTICS:
SNX-0723 IC_{50} of 1.76 µM. Assay conditions are same as above, except using 1 nM geldanamycin; SNX-0723 titration range (0.019-10 µM).

RELATED PRODUCTS:

- **Cat# 4014-10:** CD40Ligand/TRAP, human recombinant
- **Cat # 4014-50:** CD40Ligand/TRAP, human recombinant
- **Cat# 4014-1000:** CD40Ligand/TRAP, human recombinant
- **Cat# 4015-1000:** CD40Ligand/TRAP, murine recombinant
- **Cat# 4015-25:** CD40Ligand/TRAP, murine recombinant
- **Cat# 4015-100:** CD40Ligand/TRAP, murine recombinant

FOR RESEARCH USE ONLY! Not to be used on humans.