

PI3Ka activator [UCL-TRO-1938™]

Catalogue number: 161068

Sub-type:

Images:

Contributor

Inventor: Bart Vanhaesebroeck

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: PI3Ka activator [UCL-TRO-1938™]

Alternate name: UCL-TRO-1938

Class:

Conjugate:

Description: 1938 is a direct allosteric activator of PI3Kalpha, a key signalling molecule in cells. This tool allows to directly probe PI3Ka function in cells. PI3Ka is encoded by the PIK3CA gene, which is one of the most frequently mutated kinases in solid tumours. 1938 also activates both the wild-type and the oncogenic forms of PI3Kalpha.

Purpose: tool compound to probe for PI3Ka activity in cells and tissues

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity: no activity on all other PI3K and PIKK isoforms tested - no relevant inhibition of kinases as determined by a kinase profiling screen (ThermoFischer).

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Use in cells at 1-10 microM (see Gong et al. Nature). Do not use at concentrations above 10 microM for cell-based assays longer than 24h.

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 456.59

Ic50:

Applications

Application: signal transduction in a broad range of mammalian cells (human/rat/mouse) - protection from cardiac ischaemia-reperfusion - neuroregeneration (in rats)

Application notes:

Handling

Format: Dry

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: powder can be stored at room temperature - store aliquots of 10 mM stock dissolved in DMSO at -20C for shorter time (3 month) longer storage is recommended at -80C

Shipping conditions: dry powder shipped at room temperature

Related tools

Related tools:

References

References: Padilla-Nash HM et al. 2012. Genes Chromosomes Cancer. Apr;51(4):353-74. PMID: 22161874; PMCID: PMC3276744

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