

[Src/Abl1] Inhibitor AZD0424 Small Molecule Tool Compound

Catalogue number: 153985

Sub-type: Inhibitor

Images:

Contributor

Inventor:

Institute: AstraZeneca

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: [Src/Abl1] Inhibitor AZD0424 Small Molecule Tool Compound

Alternate name: Src/Abl1 Kinase Inhibitor AZD424

Class:

Conjugate:

Description: Potent and selective inhibitor of Src/Abl1 kinases showing additional activity against other Src family kinase members including Yes, Fgr, Lck, Hck, Fyn and Blk. Suggested application in Alzheimer's disease, schizophrenia and treatment of alcoholism; Saracatinib, a related Src inhibitor has been used in clinical trials for Alzheimer's disease and alcoholism.

Purpose: Inhibitor

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity: Src family kinase members including Fyn, Yes, Fgr, Lck, Hck, and Blk screened at 100nM at which of the SrcA family it had >99% inhibition of Src. In comparison Yes was 97%, Fgr 93% and Fyn 86% inhibited.

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Blocking the activity of the Src family kinase Fyn slows the progression of Alzheimer's disease. Fyn has been implicated in involvement in signalling pathways that may lead to other severe brain pathologies such as Parkinson's disease. Fyn also plays a role in the regulation of amyloid- β ($\text{A}\beta$) plaque production and mediates $\text{A}\beta$ -induced synaptic deficits and neurotoxicity and is also known to induce tyrosine phosphorylation of tau. Src has also been shown to play a role in alcoholism.

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

IC₅₀: 4 nM

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Cold storage required (2-8° C)

Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: BioGraphene: Direct Exfoliation of Graphite in a Kitchen Blender for Enzymology Applications. ; Kumar et al. 2016. Methods Enzymol. 571:225-44. PMID: 27112402.

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