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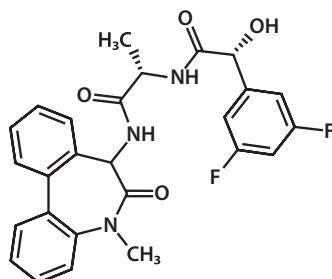
1. Description

| | |
|-------------------------|--|
| Components | StemMACS™ LY411575. A highly potent, small molecule gamma-secretase inhibitor. |
| Size | 5 mg |
| Product format | White solid |
| Molecular weight | 479.48 |
| CAS number | 209984-57-6 |

Systematic name N-2((2S)-2-(3,5-difluorophenyl)-2-hydroxyethanoyl)-N1-((7S)-5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-L-alaninamide

Molecular formula C₂₆H₂₃F₂N₃O₄

Structure



| | |
|-------------------|---|
| Purity | >98% |
| Solubility | Soluble in DMSO (up to 100 mM) |
| Storage | Store powder at -20 °C. After reconstitution, store aliquots at -20 °C. Protect from light. |

1.1 Background information

StemMACS™ LY411575 is a selective small molecule inhibitor of gamma-secretase, a key component of the Notch signaling pathway. Inhibition of gamma-secretase by LY411575 prevents Notch processing and activation. LY411575 has been shown to promote goblet cell differentiation in mouse intestine and promotes neural differentiation in mouse embryonic stem cells.

2. Protocol

2.1 Preparation of stock solution

Effective concentrations of StemMACS LY411575 for cell culture applications range from 1 nM to 50 μM. A 10 mM stock solution in DMSO will be appropriate for most applications and can be prepared as follows:

1. For a 10 mM stock solutions, reconstitute the entire vial contents by adding 1043 μL of pure DMSO. Warm to 37 °C for 3-5 min to facilitate solubilization.

▲ **Note:** The vial may have turned upside down during transportation. Gently tap prior to reconstitution to collect all powder at the bottom of the vial.

2. Prepare appropriate aliquots and store at -20 °C. Avoid repeated freeze-thaw cycles.

▲ **Note:** The DMSO concentration in culture should not exceed 0.5%. Stock solutions of alternate concentration can be prepared using the following table. Add the solvent directly to the vial, it will hold up to 4 mL.

| Desired stock | 0.1 mM | 1 mM | 5 mM | 10 mM |
|-----------------------|---------------------------------|--------------------------------|---------|---------|
| Volume of DMSO to add | Dilute 1:100 from a 10 mM stock | Dilute 1:10 from a 10 mM stock | 2086 μL | 1043 μL |

2.2 Use in cell culture

1. Thaw aliquots at 37 °C as needed.
2. To avoid precipitation, prewarm the cell culture media prior to adding the reconstituted compound.
3. Mix and filter the supplemented media through a 0.2 μM low-protein binding filter.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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