



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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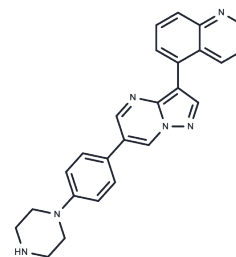
[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

LDN-212854

## Chemical Properties

CAS No. : 1432597-26-6  
 Formula: C<sub>25</sub>H<sub>22</sub>N<sub>6</sub>  
 Molecular Weight: 406.48  
 Appearance: no data available  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                            |                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | LDN-212854 (BMP Inhibitor III), a novel BMP inhibitor, exhibits greater selectivity for BMP versus the TGF- $\beta$ type I receptors; possesses differences towards ALK2(IC <sub>50</sub> =1.3 nM) versus ALK1/3 compared to other inhibitors. |
| Targets(IC <sub>50</sub> ) | ALK,TGF-beta/Smad                                                                                                                                                                                                                              |
| In vitro                   | LDN-212854 (6 mg/kg, i.p.) effectively inactivates ALK2 signaling in vivo and efficiently inhibits ectopic ossification in inducible transgenic ALK2 mice mutants with progressive ankylosis.                                                  |
| In vivo                    | In C2C12 myoblasts, LDN-212854 demonstrates a higher selectivity for BMP6 over BMP4 in inducing osteogenic differentiation, compared to the osteogenic differentiation induced by BMP6 and BMP4.                                               |

## Solubility Information

|            |                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------|
| Solubility | 2eq.HCl: 20.3 mg/mL (50 mM),<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.4601 mL | 12.3007 mL | 24.6015 mL |
| 5 mM  | 0.492 mL  | 2.4601 mL  | 4.9203 mL  |
| 10 mM | 0.246 mL  | 1.2301 mL  | 2.4601 mL  |
| 50 mM | 0.0492 mL | 0.246 mL   | 0.492 mL   |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

ACS Chem Biol. 2013, 8(6), 1291-1302.

Yuan Q, Cao S, Dong Q, et al. ALDH2 Activation Inhibited Cardiac Fibroblast-to-Myofibroblast Transformation Via

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