

# CERTIFICATE OF ANALYSIS

(Certificate No. KML003032-01)

Release Date: 28/09/2024

Re-test Date: 27/09/2027

## Nitro Sulphide Impurity of Lansoprazole

### Identification

**Chemical Name :**

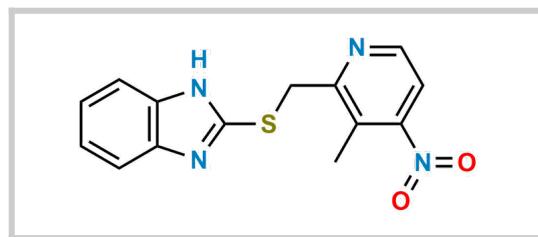
2-(((3-Methyl-4-nitropyridin-2-yl)methyl)thio)-1H-benzo[d]imidazole

CAT No. : KML003032

CAS No. : 152402-98-7

Molecular Formula : C<sub>14</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S

Molecular Weight : 300.3



### Analytical Information

Batch No. : L003032-073-395

Description : Off White Solid

HPLC Purity : 98.58 %

Weight Loss By TGA : 4.10 %

% Potency : 94.54 %

Solubility : Acetonitrile

Mass : Confirm

IR : Confirm

<sup>1</sup>H NMR : Confirm

### Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 4.10(Weight Loss By TGA)] x [98.58(HPLC Purity)]/100 = 94.54 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		28/09/2024
Reviewed & Approved By	Quality Control	Jatin Patel		28/09/2024

Attachments : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA