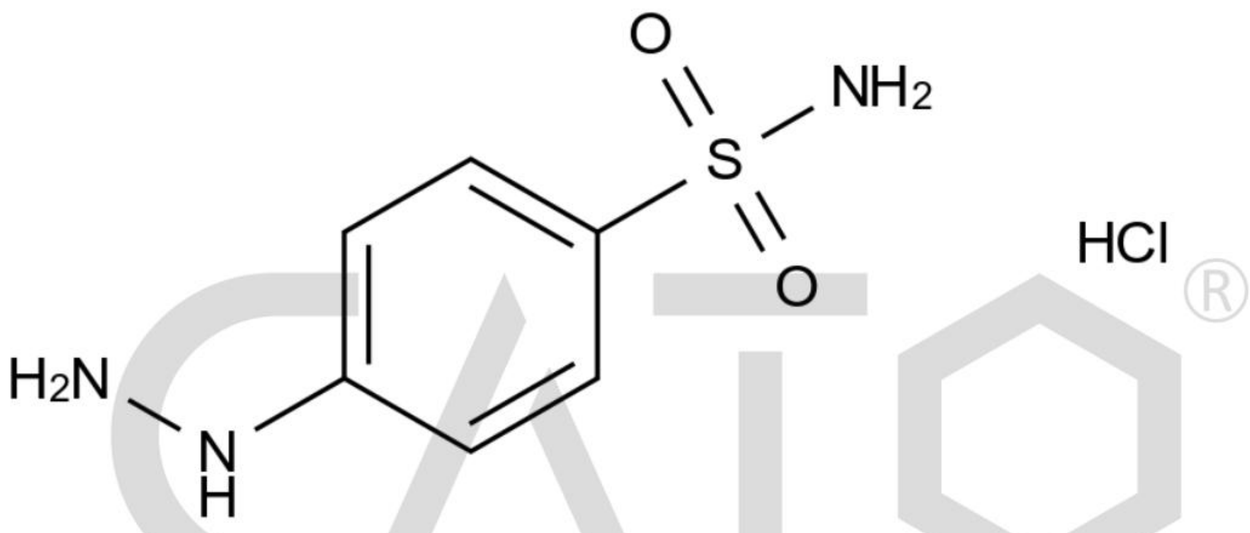
Certificate of Analysis

Reference Material & Standard

Product Name:	Celecoxib Impurity 21 HCl	**Catalogue Number:**	C4X-104321
Synonyms:	N/A	**Lot Number:**	1120-RH-0080
CAS Number:	17852-52-7	**Expiry Date:**	Nov 19, 2030
Molecular Formula:	$C_6H_9N_3O_2S$ HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	187.22 36.46	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Orange Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.0139%
Assay	Mass Balance	99.99%

CATO Research Chemicals Inc.

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Koi Date: Nov 20, 2026

Reviewed by: Lisa Date: Nov 20, 2026

Approved by General Manager: David Date: Nov 20, 2026

CATO Research Chemicals Inc.