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# Certificate of Analysis

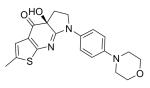
## MPH-220

Cat. No.:	HY-148516
CAS No.:	2649776-79-2
Batch No.:	376115
Chemical Name:	4H-Pyrrolo[2,3-b]thieno[3,2-e]pyridin-4-one, 4a,5,6,7-tetrahydro-4a-hydroxy-2-methyl-7-[4-(4-m
	orpholinyl)phenyl]-, (4aS)-

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{20}H_{21}N_{3}O_{3}S$		
Molecular Weight:	383.46		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

**Chemical Structure:** 



### ANALYTICAL DATA

Appearance:	Orange to red (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
LCMS:	Consistent with structure
Purity (HPLC):	99.09%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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