Biosynth viF™ – fluorescent dyes overview

Cat. No.	Name	CAS No.
V-5002	viF 428 - azide	[1286276-78-5]
V-5000	viF 419 - carboxylic acid	
V-5003	viF 549 - carboxylic acid	[1355043-65-0]
V-5005	viF 550 - carboxylic acid	[644979-14-6]
V-5007	viF 553 - carboxylic acid	
V-5009	viF 642 - carboxylic acid	[666829-25-0]
V-5011	viF 644 - carboxylic acid	[644979-16-8]
V-5013	viF 646 - carboxylic acid	[666829-22-7]
V-5015	viF 648 - carboxylic acid	
V-5017	viF 650 - carboxylic acid	
V-5019	viF 681 - carboxylic acid	[210105-75-2]
V-5021	viF 758 - carboxylic acid	

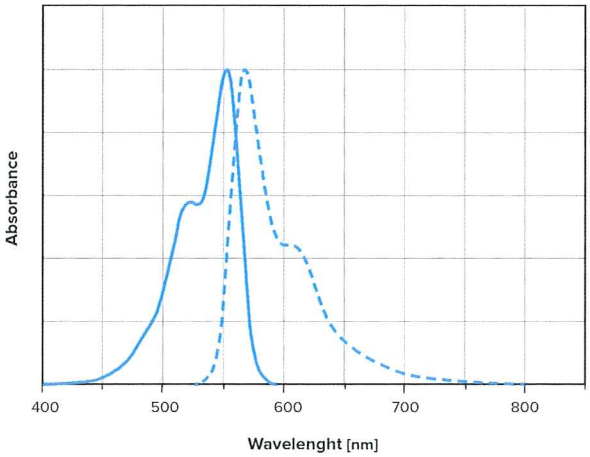
Cat. No.	Name		CAS No.
V-5001	viF 419 - NHS ester		
V-5004	viF 549 - NHS ester		[350686-87-2]
V-5006	viF 550 - NHS ester		
V-5008	viF 553 - NHS ester	sulfo-NHS	
V-5010	viF 642 - NHS ester		
V-5012	viF 644 - NHS ester		[400051-84-5]
V-5014	viF 646 - NHS ester	sulfo-NHS	
V-5016	viF 648 - NHS ester	sulfo-NHS	
V-5018	viF 650 - NHS ester	sulfo-NHS	
V-5020	viF 681 - NHS ester		
V-5022	viF 758 - NHS ester		

viF™ alternative fluorophores:

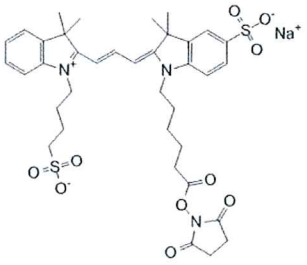
viF 419 - Alexa Fluor 405
viF 549 - Alexa Fluor 546
viF 553 - Cy3, Tetramethylrhodamine (TRITC), Alexa Fluor 555, Rhodamine Red
viF 642 - Alexa Fluor 635
viF 650 - Cy5, Alexa Fluor 647
viF 681 - Cy5.5, Alexa Fluor 680
viF 758 - Cy7, Alexa Fluor 750

viF™ – NHS esters

EXAMPLE:
viF 553 - NHS ester
Biosynth Cat. No. V-5008
This fluorophore offers spectroscopic properties similar to Cy3, Tetramethylrhodamine (TRITC), Alexa Fluor 555 or Rhodamine Red.



Absorption (———) and emission (- - - -) spectra of viF 553 - NHS ester in methanol



Structure of viF 553 - NHS ester.
The N-Hydroxysuccinimidyl-ester group allows for easy fluorescence labeling of proteins or other amines. The SO3- group increases water solubility.