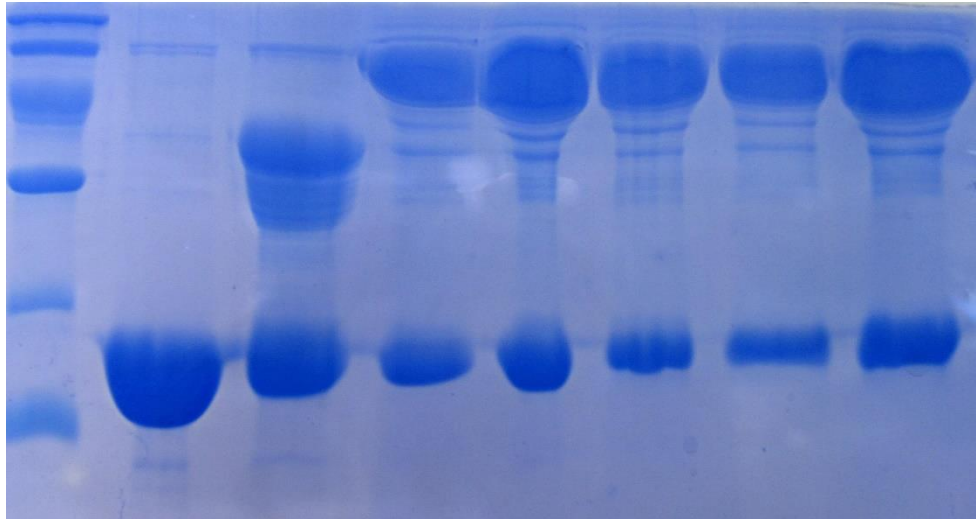


Supplementary Material

Supplementary Figures and Tables

1. Supplementary Figures



Supplementary Figure 1. SDS-PAGE analysis of the samples used in the SAXS experiments after returning to the home laboratory. From left to right: 1) LMW marker (GE Healthcare): 98 kDa, 69 kDa, 45 kDa, 30 kDa, 20.1 kDa, 14.4 kDa, 2) IpgC, 3) IpgC with IpaB Nter, 4 – 8) IpgC with full length IpaB.

2. Supplementary Tables

Calc. Mass	Obsrv. Mass	\pm da	\pm ppm	Start Seq.	End Seq.	Sequence	Ion Score	C. I. %
872,4948	872,5002	0,0054	6	158	164	INQIQTR		
1167,5641	1167,569	0,0045	4	290	299	SDEYAAEVRK		
1196,6633	1196,604	-0,0591	-49	425	436	QAAAKLAENIGK		
1329,7737	1329,772	-0,0018	-1	178	188	LSREEIQLTIK	51	99,765
1329,7737	1329,772	-0,0018	-1	178	188	LSREEIQLTIK		
1446,7799	1446,779	-0,0012	-1	123	135	INTLLSETEGLTR	109	100
1446,7799	1446,779	-0,0012	-1	123	135	INTLLSETEGLTR		
1520,7704	1520,768	-0,0022	-1	270	282	NDLALFQSLQESR	134	100
1520,7704	1520,768	-0,0022	-1	270	282	NDLALFQSLQESR		
1604,8101	1604,799	-0,0113	-7	1	15	MHNVSTTTTGFPPLAK		
2160,0779	2160,068	-0,0098	-5	16	36	ILTSTELGDNTIQAANDAANK	135	100
2160,0779	2160,068	-0,0098	-5	16	36	ILTSTELGDNTIQAANDAANK		
2280,1719	2280,182	0,0102	4	116	135	NLEFSDKINTLLSETEGLTR	149	100
2280,1719	2280,182	0,0102	4	116	135	NLEFSDKINTLLSETEGLTR		
2335,1523	2335,164	0,0118	5	263	282	NNEESLKNLALFQSLQESR	205	100
2335,1523	2335,164	0,0118	5	263	282	NNEESLKNLALFQSLQESR		
2371,1047	2371,132	0,0269	11	220	241	EIDSFSAFSNTASAEQLSTQKK		
2389,1155	2389,108	-0,0071	-3	220	241	EIDSFSAFSNTASAEQLSTQKK		
2392,1926	2392,162	-0,031	-13	546	567	FGQLQEVIADLLASMSNSQANR	11	0
2392,1926	2392,162	-0,031	-13	546	567	FGQLQEVIADLLASMSNSQANR		

Supplementary Table 1. Mass spectrometry analysis performed on the IpaB-N band isolated from the SDS-PAGE gel of Supplementary Figure 1, lane 3. Information of the peptides detected is presented. The analysis was performed by the Mass Spec facility (ProteoPole) of Institut Pasteur.

Model	Molecule	PDB template	PDB template residue numbers	Model residue numbers*
<i>Asymmetric IpgC</i>	IpgC	3GZ1	8-151	8-151
<i>Symmetric IpgC</i>	IpgC	3KS2	18-154	18-154
<i>IpgC-IpaB dimer</i>	IpgC (AcrH)	3KS2 (3WXX)	30-154 (10-159)	30-154 (13-154)
	IpaB	3GZ1	60-72	60-72
	IpaB	5WKQ	74-239	74-239
	IpaB (AopB)	3WXX	71-263	246-438

Supplementary Table 2. PDB models used for the modeling

*The numbering of the wild type protein is employed in the table but the IpgC construct we used contains the N-terminal tag “MGSSHHHHHSSGLVPRG“ (+17 residues).

3. Supplementary Video

Supplementary Video 1. Three-dimensional view of the IpgC/IpaB complex SAXS model.

4. References

- Nguyen, V. S., Jobichen, C., Tan, K. W., Tan, Y. W., Chan, S. L., Ramesh, K., et al. (2015). Structure of AcrH-AopB Chaperone-Translocator Complex Reveals a Role for Membrane Hairpins in Type III Secretion System Translocon Assembly. *Structure* 23, 2022–2031. doi:10.1016/j.str.2015.08.014.
- Zimmermann, L., Stephens, A., Nam, S. Z., Rau, D., Kübler, J., Lozajic, M., et al. (2018). A Completely Reimplemented MPI Bioinformatics Toolkit with a New HHpred Server at its Core. *J. Mol. Biol.* 430, 2237–2243. doi:10.1016/j.jmb.2017.12.007.